I claim:

1. A chamber seal device for sealing a wafer stage chamber assembly of a photolithography system for manufacturing semiconductor substrates, the wafer stage chamber assembly having a first portion and a second portion, the chamber seal device

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pinhead;

a plurality of pins aligned on a first flange surrounding a perimeter of the first portion for insertion into a corresponding plurality of openings on a second flange surrounding a perimeter of the second portion, each of the plurality of pins having a

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at least one keyhole strip for insertion into at least a portion of the plurality of pinheads to slidably lock the plurality of pins fastening at least a portion of the first and second flanges to construct the wafer stage chamber assembly; and

an o-ring seal positioned in between and surrounding the perimeter of the first and second flanges to seal the wafer stage chamber assembly.

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- 2. The chamber seal device of claim 1, wherein the o-ring seal is inflatable to press the first portion against the second portion creating a sealing engagement of the wafer stage chamber assembly.
 - 3. A photolithography system comprising the chamber seal device of claim 1.

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4. A chamber seal device for sealing a wafer stage chamber assembly of a photolithography system for manufacturing semiconductor substrates, the wafer stage chamber assembly having a first portion and a second portion, the chamber seal device comprising:

at least one clamp channel to fasten at least a portion of a perimeter of a first flange of the first portion with a corresponding portion of a second flange of the second portion; and

at least one o-ring seal positioned in between and surrounding the perimeter of the first and second flanges to seal the wafer stage chamber assembly.

- 10 5. The chamber seal device of claim 4, wherein the at least one o-ring seal is inflatable to create a sealing engagement of the wafer stage chamber assembly.
 - 6. A photolithography system comprising the chamber seal device of claim 4.

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7. A wafer stage chamber assembly of a photolithography system for manufacturing semiconductor substrates, comprising:

a chamber portion having a first flange surrounding a perimeter of the chamber portion;

a top wall having a second flange surrounding a perimeter of the top wall, the second flange having a plurality of openings;

a plurality of pins aligned on the first flange for insertion into the plurality of openings on the second flange, each of the plurality of pins having a pinhead;

at least one keyhole strip for insertion into at least a portion of the plurality of pinheads to slidably lock the plurality of pins fastening at least a portion of the first and second flanges to construct the wafer stage chamber assembly; and

an o-ring seal positioned in between and surrounding the perimeter of the first and second flanges to seal the wafer stage chamber assembly.

- 8. The wafer stage chamber assembly of claim 7, wherein the o-ring seal is inflatable to press the chamber portion against and the top wall creating a sealing engagement of the wafer stage chamber assembly.
 - 9. A photolithography system comprising the wafer stage chamber assembly of claim 7.

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10. A wafer stage chamber assembly of a photolithography system for manufacturing semiconductor substrates, comprising:

a chamber portion having a first flange surrounding a perimeter of the chamber portion;

a top wall having a second flange surrounding a perimeter of the top wall;

at least one clamp channel to fasten at least a portion of the perimeter of the first flange with a corresponding portion of the second flange; and

at least one o-ring seal positioned in between and surrounding the perimeter of the first and second flanges to seal the wafer stage chamber assembly.

- 11. The wafer stage chamber assembly of claim 10, wherein the at least one o-ring seal is inflatable to press the chamber portion against and the top wall creating a sealing engagement of the wafer stage chamber assembly.
 - 12. A photolithography system comprising the wafer stage chamber assembly of claim 10.

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13. A wafer stage chamber assembly of a photolithography system for manufacturing semiconductor substrates, comprising:

a chamber portion having a U-shaped clamp surrounding a perimeter of the chamber portion;

a top wall having a flange surrounding a perimeter of the top wall, the flange fitted for engagement with the U-shaped clamp;

at least one o-ring seal positioned between one leg of the U-shaped clamp and the flange surrounding the perimeter of the chamber portion and the top wall to seal the wafer stage chamber assembly.

14. A photolithography system comprising the wafer stage chamber assembly of claim 13.

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15. A chamber seal device that seals a chamber assembly, the chamber assembly having a first portion and a second portion, the chamber seal device comprising:

a connecting member that connects the first portion and the second portion; and a sealing member that contacts to at least one of the first portion and the second portion, the sealing member including a pressing portion that creates a sealing engagement of the chamber after connecting the first portion and the second portion by the connecting member.

- 16. A stage assembly comprising the chamber assembly of claim 15.
- 17. An exposure apparatus comprising the stage assembly of claim 16.
- 18. An object on which said image has been formed by the exposure apparatus of claim 17.
- 19. A method for making a chamber assembly, the chamber assembly having a first portion and a second portion, the method comprising:

connecting the first portion and the second portion; and

disposing a sealing member that contacts to at least one of the first portion and the second portion so that a pressing portion of the sealing member creates a sealing engagement of the chamber after connecting the first portion and the second portion.

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20. A method for making a stage assembly, comprising:

providing a stage device; and

providing the chamber assembly made by utilizing the method of claim 19 so that

the chamber assembly encloses the stage device.

- 21. A method for making an exposure apparatus comprising the stage assembly made by utilizing the method of claim 20.
- 22. A method for making an object including at least the photolithography process, wherein the photolithography process uses the exposure apparatus made by utilizing the method of claim 21.

23. A method for creating a space surrounded by at least a first portion and a second portion, the method comprising:

connecting the first portion and the second portion; and

disposing a sealing member that contacts to at least one of the first portion and the second portion so that a pressing portion of the sealing member creates a sealing engagement after connecting the first portion and the second portion.

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